

IN THE CLAIMS

Amend claims 12, 21, 22, 25, and 29, and cancel claims 20 and 28 without prejudice, as follows:

1. (previously presented) An insect bait composition for the control of insect pests comprising gossypol, an amount of a feeding stimulant or food material effective to stimulate feeding thereon by a target insect, and an insecticidal agent, wherein the concentration of said gossypol in said bait is not biocidal to said target insect in the absence of said insecticidal agent, but is sufficient to significantly increase the insecticidal efficacy of said insecticidal agent to said target insect so that the combination of said gossypol and said insecticidal agent is effective for control of said target insect and further wherein said additional insecticidal agent is selected from the group consisting of *Metarhizium anisopliae*, *Aspergillus flavus*, *Beauveria bassiana*, *Paecilomyces* spp, *Aspergillus fumigatus*, *Aspergillus nomius*, and *Aspergillus niger*.

2. (previously presented) The insect bait composition of claim 1 wherein said insecticidal agent is provided at a

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concentration in said bait which is ineffective for control of said target insect in the absence of said gossypol.

3. (previously presented) The insect bait composition of claim 1 wherein the concentration of said gossypol in said bait is greater than or equal to about 5 ppm, and less than 500 ppm.

4. (previously presented) The insect bait composition of claim 3 wherein the concentration of said gossypol in said bait is greater than or equal to about 5 ppm, and less than or equal to about 450 ppm.

5. (previously presented) The insect bait composition of claim 4 wherein the concentration of said gossypol in said bait is greater than or equal to about 50 ppm, and less than or equal to about 450 ppm.

6. (canceled).

7. (canceled).

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8. (canceled).

9. (previously presented) The insect bait composition of claim 1 wherein said gossypol is contained in an extract of cotton seed or cotton seed oil.

10. (original) The insect bait of claim 1 wherein said target insect is a social insect, said feeding stimulant and feeding material are effective for stimulating feeding of said social insect upon said bait, and said insecticidal agent is effective against said social insect.

11. (original) The insect bait composition of claim 10 wherein said social insect is selected from the group consisting of termites, fire ants, and cockroaches.

12. (currently amended) A termite bait composition comprising a glanded cotton phyllophage toxin, water, an insecticidal agent, and a cellulose-containing material effective as a food material upon which the termite will feed, wherein the

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concentration of said phyllophage toxin in said bait is not biocidal to said termite in the absence of ~~an additional~~ said insecticidal agent, but is sufficient to significantly increase the insecticidal efficacy of said ~~additional~~ insecticidal agent when said termite is exposed thereto, and further wherein said water is present in said bait in an amount greater than or equal to about 50%, and less than or equal to about 90% by weight of said bait.

13. (original) The termite bait composition of claim 12 wherein the concentration of said phyllophage toxin in said bait is greater than or equal to about 5 ppm, and less than or equal to about 500 ppm.

14. (original) The termite bait composition of claim 13 wherein the concentration of said phyllophage toxin in said bait is greater than or equal to about 5 ppm, and less than or equal to about 450 ppm.

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15. (original) The termite bait composition of claim 14 wherein the concentration of said phyllophage toxin in said bait is greater than or equal to about 50 ppm, and less than or equal to about 450 ppm.

16. (canceled).

17. (canceled).

18. (previously presented) The termite bait composition of claim 12 further comprising a humectant.

19. (original) The termite bait composition of claim 18 wherein said humectant is selected from the group consisting of agar, polyacrylamide, and methylcellulose.

20. (canceled).

21. (currently amended) The termite bait composition of claim ~~20~~ 12 wherein said ~~additional~~ insecticidal agent is

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selected from the group consisting of silafluofen, borates, sulfluramid, fluoroalkyl sulfonamides, avermectin, hydramethylnon, hexaflumuron, chlorfluazuron, lufenuron, diflubenzuron, azadirachtin, dechlorane, diiodomethyl-para-tolyl sulfone, fluorosulfonates, imidacloprid, cyromazine, juvenile hormones, fenoxycarb, methoprene, hydroprene, triprene, furnesinic acid ethyl and alkoxy derivatives, pyriproxyfen, streptomycin sulfate, rifampicin, albendazole, neomycin sulfate, sorbic acid, antibiotics, antimycotics, disodium octaborate tetrahydrate, fipronil, the plant *Rheunoe jupanic* Thunb. Roth, *Metarhizium anisopliae*, *Aspergillus flavus*, *Beauveria bassiana*, *Neoplectana carpocapsae*, insect viruses, *Bacillus thuringensis*, *Serratia marcescens*, *Bacillus thuringensis* toxin, *Paecilomyces* spp, *Aspergillus fumigatus*, *Aspergillus nomius*, and *Aspergillus niger*.

22. (currently amended) The termite bait composition of claim ~~20~~ 12 wherein said ~~additional~~ insecticidal agent comprises a monoterpene derived from cotton effective to inhibit mixed function oxidases (MFOs) in termites.

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23. (previously presented) The termite bait composition of claim 22 wherein said monoterpene agent is selected from the group consisting of  $\alpha$ -pinene,  $\beta$ -pinene, myrcene,  $\beta$ -ocimene,  $\alpha$ -copaene,  $\alpha$ -humulene,  $\beta$ -caryophyllene,  $\beta$ -carophyllene oxide,  $\gamma$ -bisabolene,  $\beta$ -bisabolol, limonene, piperonyl butoxide, and mixtures thereof.

24. (original) The termite bait composition of claim 12 wherein said bait is a solid.

25. (currently amended) A method of controlling social insects, said method comprising providing an insect bait composition to the locus of a colony of said insects, wherein said insect bait composition comprises a glanded cotton phyllophage toxin, water, an amount of a feeding stimulant or food material effective to stimulate feeding thereon by said social insects, and an insecticidal agent, wherein the concentration of said phyllophage toxin in said bait is not biocidal to said social insects in the absence of said insecticidal agent, but is sufficient to significantly increase

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the insecticidal efficacy of said insecticidal agent to said social insects so that the combination of said phyllophage toxin and said insecticidal agent is effective for control of said social insects, and further wherein said water is present in said bait in an amount greater than or equal to about 50%, and less than or equal to about 90% by weight of said bait.

26. (original) A method of controlling subterranean termites, said method comprising:

- a) providing a termite bait composition to the locus of a termite colony, wherein said termite bait composition comprises a glanded cotton phyllophage toxin and a cellulose-containing material effective as a food material upon which the termite will feed, and
- b) providing an additional insecticidal agent to the locus of said termite colony,

wherein the concentration of said phyllophage toxin in said bait is not biocidal to termites in the absence of said additional insecticidal agent, but is sufficient to significantly increase



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the insecticidal efficacy of said additional insecticidal agent when termites are exposed thereto.

27. (previously presented) The method of claim 26 wherein said insecticidal agent is provided at a concentration in said bait which is ineffective for control of said termites in the absence of said phyllophage toxin.

28. (canceled).

29. (currently amended) A termite bait composition comprising a glanded cotton phyllophage toxin, water, a cellulose-containing material effective as a food material upon which the termite will feed, and an additional insecticidal agent, wherein the concentration of said phyllophage toxin in said bait is not biocidal to said termite in the absence of said additional insecticidal agent, but is sufficient to significantly increase the insecticidal efficacy of said additional insecticidal agent when said termite is exposed thereto, and further wherein said additional insecticidal agent comprises a

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monoterpene derived from cotton effective to inhibit mixed function oxidases (MFOs) in termites, and further wherein said water is present in said bait in an amount greater than or equal to about 50%, and less than or equal to about 90% by weight of said bait.

Add new claims 30-37 as follows:

30. (new) The method of claim 26 wherein the concentration of said phyllophage toxin in said bait composition is greater than or equal to about 5 ppm, and less than or equal to about 500 ppm.

31. (new) The method of claim 26 wherein the concentration of said phyllophage toxin in said bait composition is greater than or equal to about 5 ppm, and less than or equal to about 450 ppm.

32. (new) The method of claim 26 wherein the concentration of said phyllophage toxin in said bait composition is greater

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than or equal to about 50 ppm, and less than or equal to about 450 ppm.

33. (new) The method of claim 26 wherein said bait composition further comprises water.

34. (new) The method of claim 33 wherein said water is present in said bait composition in an amount greater than or equal to about 50%, and less than or equal to about 90% by weight of said bait.

35. (new) The method of claim 26 wherein said insecticidal agent is selected from the group consisting of silafluofen, borates, sulfluramid, fluoroalkyl sulfonamides, avermectin, hydramethylnon, hexaflumuron, chlorfluazuron, lufenuron, diflubenzuron, azadirachtin, dechlorane, diiodomethyl-para-tolyl sulfone, fluorosulfonates, imidacloprid, cyromazine, juvenile hormones, fenoxycarb, methoprene, hydroprene, triprene, furnesinic acid ethyl and alkoxy derivatives, pyriproxyfen, streptomycin sulfate, rifampicin, albendazole, neomycin sulfate,

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sorbic acid, antibiotics, antimycotics, disodium octaborate tetrahydrate, fipronil, the plant *Rheunio jupanic* Thunb. Roth, *Metarhizium anisopliae*, *Aspergillus flavus*, *Beauveria bassiana*, *Neoplectana carpocapsae*, insect viruses, *Bacillus thuringensis*, *Serratia marcescens*, *Bacillus thuringensis* toxin, *Paecilomyces* spp, *Aspergillus fumigatus*, *Aspergillus nomius*, and *Aspergillus niger*.

36. (new) The method of claim 26 wherein said insecticidal agent comprises a monoterpene derived from cotton effective to inhibit mixed function oxidases (MFOs) in termites.

37. (new) The method of claim 36 wherein said monoterpene agent is selected from the group consisting of  $\alpha$ -pinene,  $\beta$ -pinene, myrcene,  $\beta$ -ocimene,  $\alpha$ -copaene,  $\alpha$ -humulene,  $\beta$ -caryophyllene,  $\beta$ -caryophyllene oxide,  $\gamma$ -bisabolene,  $\beta$ -bisabolol, limonene, piperonyl butoxide, and mixtures thereof.